

Title (en)
METHOD FOR PRODUCING L-AMINO ACID BY USING MICROORGANISM CONTAINING NADP DEPENDENT GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE

Title (de)
VERFAHREN ZUR HERSTELLUNG VON L-AMINOSÄUREN UNTER VERWENDUNG VON MIKROORGANISMEN VON MIKROORGANISMEN, DIE NADP-ABHÄNGIGE GLYCERALDEHYD-3-PHOSPHAT-DEHYDROGENASE

Title (fr)
PROCÉDÉ DE PRODUCTION D'ACIDE L-AMINÉ À L'AIDE D'UN MICRO-ORGANISME CONTENANT DE LA GLYCÉRALDÉHYDE-3-PHOSPHATE DÉSHYDROGÉNASE DÉPENDANTE DE NADP

Publication
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Application
EP 21724998 A 20210121

Priority
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• KR 2021000823 W 20210121

Abstract (en)
[origin: EP3878965A1] The present disclosure relates to a microorganism of the genus *Corynebacterium* having an increased L-amino acid producing ability, containing NADP-dependent glyceraldehyde-3-phosphate dehydrogenase derived from the genus *Lactobacillus*. According to the present disclosure, the NADP-dependent glyceraldehyde-3-phosphate dehydrogenase derived from *Lactobacillus delbrueckii* subsp. *bulgaricus* is introduced to increase the reducing power through the activity of NADP-dependent glyceraldehyde-3-phosphate dehydrogenase, thereby increasing the L-amino acid producing ability of the strains belonging to the genus *Corynebacterium*.

IPC 8 full level
C12N 15/77 (2006.01); **C07K 14/34** (2006.01)

CPC (source: CN EP KR US)
C07K 14/34 (2013.01 - KR); **C12N 1/20** (2013.01 - CN); **C12N 1/205** (2021.05 - US); **C12N 9/0008** (2013.01 - CN EP US); **C12N 15/77** (2013.01 - EP KR US); **C12P 13/04** (2013.01 - CN EP US); **C12Y 102/01009** (2013.01 - CN); **C12Y 102/01012** (2013.01 - US); **C12N 2800/101** (2013.01 - US); **C12R 2001/15** (2021.05 - US)

Citation (search report)
• [Y] US 2012208245 A1 20120816 - RAH SO YEON [KR], et al
• [Y] US 2014154760 A1 20140605 - BINDEL MARIAH [US]
• [Y] WO 2019017706 A2 20190124 - CJ CHEILJEDANG CORP [KR]
• [Y] DONG JINJUN ET AL: "CRISPR-Cpf1-Assisted Engineering of SNK118 for Enhanced-Ornithine Production by NADP-Dependent Glyceraldehyde-3-Phosphate Dehydrogenase and NADH-Dependent Glutamate Dehydrogenase", APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, HUMANA PRESS INC, NEW YORK, vol. 191, no. 3, 16 January 2020 (2020-01-16), pages 955 - 967, XP037165011, ISSN: 0273-2289, [retrieved on 20200116], DOI: 10.1007/S12010-020-03231-Y

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Designated extension state (EPC)
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DOCDB simple family (publication)
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DOCDB simple family (application)
EP 21724998 A 20210121; BR 112021007124 A 20210121; CN 202180001841 A 20210121; JP 2021526713 A 20210121; KR 20200008025 A 20200121; KR 2021000823 W 20210121; TW 110102247 A 20210121; US 202117423262 A 20210121